



ELECTRONIC TUBE REFERENCE

6MK8A

Voltage - Dual Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-PENTODE

Dissimilar pentode pair for television sync separation, clipping, AGC, and low-level color-demodulator circuits, integrating several pulse and chroma-processing functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9F6	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	6250 Ω
TRANSCONDUCTANCE	0.0075 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	67.5 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	32 mA
Full supplied entry reviewed for ratings, characteristics, operating data, and capacitances.	

SECTION2 Pentode	
PLATE RESISTANCE	6250 Ω
TRANSCONDUCTANCE	0.0075 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	67.5 V
MAXIMUM PLATE DISSIPATION	1.1 W
MAXIMUM CATHODE CURRENT	32 mA
<i>Second physical pentode restored under one-row-per-physical-section policy; duplicated from reviewed section specification.</i>	

Miniature type used in sync-separator, clipper, age, 18 an<* low-level color-demodulator circuits in television « °spi receivers. Outlines section, 6E; requires miniature 9- 9F6 contact socket.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1975 RCA RC30

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 volts	Published value from supplied target entry
Heater Current	0.3 ampere	Published value from supplied target entry
Plate Voltage (Each Unit)	300 volts	Published value from supplied target entry
Grid-No	3	Published value from supplied target entry
Grid-No	150 volts	Published value from supplied target entry
Grid-No.1 (Control-Grid) Voltage, Negative-bias value	50 volts	Published value from supplied target entry
Cathode Current	32 mA	Published value from supplied target entry
Plate Dissipation (Each Section)	1.1 watts	Published value from supplied target entry
Grid-No	0.75 watt	Published value from supplied target entry
MAXIMUM PLATE CURRENT RATIO (Balance)	1	Published value from supplied target entry
Plate Voltage	100	Published value from supplied target entry
Grid-No	67.5 volts	Published value from supplied target entry
Grid-No.1 Voltage	67.5 volts	Published value from supplied target entry
Grid-No	0 volts	Published value from supplied target entry
Grid-No.1 Resistance	0.68 megohm	Published value from supplied target entry
Plate Voltage	100 volts	Published value from supplied target entry
Grid-No.1 Voltage	0 volts	Published value from supplied target entry
Plate Current –	2 mA	Published value from supplied target entry
Grid-No	1	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current (Each Section) –	2 mA	Published value from supplied target entry
Cathode Current	8.5 mA	Published value from supplied target entry
Grid-No	4.4 mA	Published value from supplied target entry
Grid-No	0.5 megohm	Published value from supplied target entry
Grid-No.1-Circuit Resistance	0.5 megohm	Published value from supplied target entry
With plate and grid No	100	Published value from supplied target entry
Heater Voltage	9.6 volts	Published value from supplied target entry
Plate Voltage	330 volts	Published value from supplied target entry
Grid Voltage, Positive-bias valu	0 volt	Published value from supplied target entry
Plate Voltage	200 volts	Published value from supplied target entry
Amplification Factor	40	Published value from supplied target entry
Plate Resistance (Approx.)	10000 ohms	Published value from supplied target entry
Transconductance	4000 mhos	Published value from supplied target entry
Plate Current	4.8 mA	Published value from supplied target entry
Grid Voltage (Approx.) for plate current f	-11 volts	Published value from supplied target entry
Heater Voltage (ac/dc)	6.3 volts	Published value from supplied target entry
Heater Current	0.535 ampere	Published value from supplied target entry
Heater Warm-up Time	11 seconds	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Direct Interelectrode Capacitances Unit No.1 Unit No	3	Published value from supplied target entry
Grid to Plate	2.6 pF	Published value from supplied target entry
Grid to Cathode and Heater	4.6 PF	Published value from supplied target entry
Plate to Cathode and Heater	0.65 PF	Published value from supplied target entry

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

